## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-149 Relating to Certification of New Motor Vehicles

## TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Liters (Cubic inches)		Exhaust Emission Control Systems (Special Features)			
KTY4.0T5FBB4	4.0	(241.3)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalysts (2) Heated Oxygen Sensors (2) (Electronic Port Fuel Injection) (On-Board Diagnostics)			

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Loaded Vehicle Weight(lbs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
3751-5750	0.50	9.0	1.0	

The following are the certification emission values for this engine family:

Loaded Vehicle Weight(Ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
3751-5750	0.15	1.7	0.2

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Maifunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

day of August, 1988.

K. D. Drachand, Chief Mobile Source Division 17.11.00 Supplemental data sheets

1989 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	BET 8.0. * A-14 Page1
Manufacturer Toyota Motor Corp	oration Engine Family KTY4.	0T5FBB4
Evaporative FamilyEV-M	E Engine Type 6 cyl.	in-line
	Liters (CID) 4.0	(241.3)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance	AIP-Air Injection - Pump	CFI-Central Fuel
ECU-Electronic Control Unit	AIV-Air Injection - Valve	Injection or
BI-Electronic Ignition	EGR-Exhaust Gas Recirculation	Throttle Body
BSAC-Blectronic Spark Advance	BIC-Electronic Injection Control	Injection
Control VA-Vacuum Advance	(Diesel Only)	BPFI-Electronic Port
VR-Vacuum Retard	EM-Engine Modification SPL-Smoke Puff Limiter or	Fuel Injection MPFI-Mechanical Port
VK Vacuum Ketulu	Throttle Delay	Fuel injection
	TOC-Trap Oxidizer, Continual	SFI-Sequential Fuel
	TOP-Trap Oxidizer, Periodical	Injection
	DBC-Dual Bed Catalyst	DID-Diesel Injection-
_	OC-Oxidation Catalyst	Direct
<u>Puel System</u>	TWC-Three-Way Catalyst	DIP-Diesel Injection-
CFI, EPFI, MPFI, SFI,	WUOC-Warm-up Oxidation Catalyst	Prechamber
DID, DIP, HOS, OS nV-nVenturi Carburetor	WUTWC-Warm-up Three-Way Catalyst	TC-Turbocharger
W-Wariable Venturi	OS-Oxygen Sensor HOS-Heated Oxygen Sensor	SC-Supercharger IC-Intercooler or
Carburetor	nos neated oxiden sensor	Aftercooler
outparetor		CCV-Combustion
		Chamber Valve
		OBD-On-Board
		Diagnostics
VEHICLE MODELS :		_
I and Co	ruicar Uscan AUD	-
	ruiser Wagon 4WD	
r.	J62LG-PNBA	
Engine: Front <u>x</u> Mid	Rear	
Drive: FWD RWD	4WD Full time 4WD Page	rt time <u>x</u>

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B.O. \* A-14-149

1	1989 A	ir reso	urces b	oard Supplem	ental data si		_
Passenger	Cars Light-D	uty Tru	cks <u>x</u>	Medium-Duty	Vehicles		e <u>2</u> esel
Manufactu	rer <u>Toyota Mo</u>	tor Cor	poration	n Engin	e family	KTY4.0T	5FBB4
Liter (CI	D) 4.0	(241.3)		Eng. :	Type <u>6 cyl</u>	. in-line	
Emission	Control Sys. (Spec	cial Fe	atures)	AIP + BGR	+ HOS + TWC ·	+ Hos + TWC	(BPFI + OBD)
Engine	Vehicle Models (If Coded see			Ign. System EI,ESAC,ECU	_	BGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.02.00)	Type	<b>Weight</b>		Part No.	Part No.	Part No.
1 & 2	FJ62LG-PNEA	<b>A4</b>	4,750	89661-60011			18450-61040 (E53) *1

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment.

Note \*1: Parenthetical information represents identifying marks found on production parts.

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